

DERWENT- 1996-018414

ACC-NO:

DERWENT- 199602

WEEK:

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TITLE: De-bittering and darkening olives - by adding laccase
derived from Trametes villosa to stoned, chopped olives,
~~aerating and heat treating~~

PATENT-ASSIGNEE: NOVO-NORDISK AS [NOVO]

PRIORITY-DATA: 1995RD-0378028 (September 20, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
RD 378028 A	October 10, 1995	N/A	000	A23B 000/00

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
RD 378028A	N/A	1995RD-0378028	September 20, 1995

INT-CL (IPC): A23B000/00

ABSTRACTED-PUB-NO: RD 378028A

~~BASIC ABSTRACT:~~

Green olives stored in a brine consisting of lactic acid, acetic
acid, CaCl₂ and sodium benzoate, were stoned and chopped into pieces
having sizes 2-5 mm².

A control (100g) and a test sample (100g) were prepared. Both samples
were diluted 1:1 with demineralised water, pH was in both samples
adjusted to 5.0 with NaOH. The test sample was then added with 1 LACU
of Laccase derived from Trametes villosa (SP 504, available from Novo
Nordisk A/S) per gram of the olive/water mass. The control was added

with a corresp., but heat-treated (85deg.C in 3 min.) amount of laccase.

The samples were then left for 2 hours at 45deg.C and aerated by atmospheric air (10 ml air per min., 1 atmos., 20deg.C). The samples were left at 4deg.C until the next day. The samples were then heat-treated (85deg.C at 3 min.).

A taste panel consisting of 10 judges was asked to compare the bitterness of the two samples and to determine which of the two had the most pronounced bitter intensity. All of the judges evaluated the test sample as being less bitter than the control. It was also visually obvious that the colour of the test sample had become darker than the control.

TITLE- DE BITTER DARK OLIVE ADD LACCASE DERIVATIVE TRAMETES STONE
TERMS: CHOP OLIVE AERATE HEAT TREAT

DERWENT-CLASS: D13 D16 E17

CPI-CODES: D03-H01; D05-A02A; E10-C04C; E10-C04D4; E10-C04J2; E34-D02;

CHEMICAL-CODES: Chemical Indexing M3 *01* Fragmentation Code J0 J011 J1 J171 M210 M211 M262 M281 M320 M416 M620 M782 M903 M904 M910 Q221 Q224 R023 Specific Compounds 00247M Registry Numbers 0247U

Chemical Indexing M3 *02* Fragmentation Code H4 H401 H481 H8 J0 J011 J1 J171 M280 M312 M321 M331 M340 M342 M349 M381 M391 M416 M620 M782 M903 M904 M910 Q221 Q224 R023 Specific Compounds 00009M Registry Numbers 0009U

Chemical Indexing M3 *03* Fragmentation Code A220 A940 C017 C100 C730 C801 C803 C804 C805 C806 C807 M411 M782 M903 M904 M910 Q221 Q224 R023 Specific Compounds 01895M Registry Numbers 1895U

Chemical Indexing M3 *04* Fragmentation Code A111 A960 C710 G010 G100 J0 J011 J1 J131 M280 M320 M411 M510 M520 M531 M540 M630 M782 M903 M904 M910 Q221 Q224 R023 Specific Compounds 01333M Registry Numbers 1333U

UNLINKED-DERWENT-REGISTRY-NUMBERS: ; 0009U ; 0247U ; 1333U ; 1895U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-006222